

Appln No. 10/735,050
Amdt date April 14, 2008
Reply to Office action of November 27, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1-16 (Cancelled)
17. (Currently Amended) An ultrasonic dental unit comprising:
an insert comprising a tip and a transducer for converting electrical energy into ultrasonic vibrations; and
a handpiece comprising:
a body rotatably receiving the insert;
a rotator head engaging the insert for rotation thereof, wherein the rotator head envelopes at least a portion of the body, such that the rotator head is adapted to be directly engaged by a user such that the insert is rotated with respect to the body by applying a force directly to the rotator head; [[and]]
a retainer ring fixedly coupled to one of the body and the rotator head and rotatably coupled to the other of the body and the rotator head, such that the rotator head is rotatably coupled to the body; and
a coil assembly for exciting the transducer.
18. (Original) The ultrasonic dental unit of claim 17, further comprising an electrical energy & fluid source for supplying electrical signals and fluid to the handpiece.
19. (Original) The ultrasonic dental unit of claim 17, wherein the retainer ring is a metallic spring that can be compressed for installation within the rotator head.
20. (Original) The ultrasonic dental unit of claim 17, wherein the coil assembly comprises a bobbin and at least one coil mounted on the bobbin.

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21. (Original) The ultrasonic dental unit of claim 17, wherein the transducer comprises a stack of thin nickel plates.

22. (Original) The ultrasonic dental unit of claim 21, wherein the stack of thin nickel plates generate the ultrasonic vibrations when the coil assembly is energized.

23. (Original) The ultrasonic dental unit of claim 17, wherein the insert further comprises a connecting body disposed between and attached to the tip and the transducer.

24-27 (Cancelled)

28. (Currently Amended) The ultrasonic dental handpiece of claim [[26]] 17, further comprising a coil assembly for exciting wherein the transducer comprises a magnetostrictive type or a piezoelectric type.